

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-4. (Canceled).

5. (Currently amended) ~~The press-fitting~~ A press-fitting structure according to claim 4 of an adjustment pipe for adjusting a compression amount of a spring member for biasing a valve member, the press-fitting structure comprising:

a cylindrical housing having an inner peripheral surface defining a cylindrical space in which the adjustment pipe is press-fitted to adjust the compression amount of the spring member by an adjustment of a press-fitted amount of the adjustment pipe;
and

a lubricating material on at least one of an outer peripheral surface of the adjustment pipe and the inner peripheral surface of the cylindrical housing, wherein:

the lubricating material is a solid lubricant;

each of the adjustment pipe and the cylindrical housing is made of stainless steel; and

the solid lubricant is an oxalate film formed on at least one of the outer peripheral surface of the adjustment pipe and the inner peripheral surface of the cylindrical housing.

Claims 6-9. (Canceled).

10. (Currently amended) ~~The adjustment~~ An adjustment pipe according to claim 9 being press-fitted into a cylindrical housing, for adjusting a spring force of a spring member biasing a valve member, the adjustment pipe comprising:

a lubricating material on an outer peripheral surface of the adjustment pipe,

wherein the lubricating material is a solid lubricating film formed on the outer peripheral surface of the adjustment pipe, and

w the solid lubricating film is an oxalate film.

Claim 11. (Canceled).

12. (Original) A press-fitting method for press-fitting an adjustment pipe into a cylindrical housing for a fuel injection valve, the adjustment pipe being for adjusting a compression amount of a spring member biasing a valve member opening and closing a fuel injection port by an adjustment of a press-fitted amount of the adjustment pipe into the cylindrical housing, the press-fitting method comprising:

forming a lubricating material on at least one of an outer surface of the adjustment pipe and an inner surface of the cylindrical housing;

temporarily press-fitting the adjustment pipe into the cylindrical housing; and

adjusting the press-fitted amount of the adjustment pipe into cylindrical housing to a predetermined amount, wherein,

in the adjusting, a test liquid is supplied into a temporarily assembled fuel injection valve, and repeating a confirmation operation of a fuel injection amount from the fuel injection port by opening and closing the valve member while the adjustment pipe being gradually press-fitted into the cylindrical housing.

13. (Original) The press-fitting method according to claim 12, wherein,
in the forming, a solid lubricating film is formed on at least one of the outer surface of the adjustment pipe and the inner surface of the cylindrical housing.

14. (Original) The press-fitting method according to claim 13, wherein the solid lubrication film is an oxalate film.

15. (Original) A press-fitting method for press-fitting an adjustment pipe into a

cylindrical housing for a fuel injection valve, the adjustment pipe being for adjusting a compression amount of a spring member biasing a valve member opening and closing a fuel injection port by an adjustment of a press-fitted amount of the adjustment pipe into the cylindrical housing, the press-fitting method comprising:

providing a plurality of fine recesses on one of an outer surface of the adjustment pipe and an inner surface of the cylindrical housing;

adhering a lubricating material on the one of the outer surface of the adjustment pipe and the inner surface of the cylindrical housing;

temporarily press-fitting the adjustment pipe into the cylindrical housing; and
adjusting the press-fitted amount of the adjustment pipe into cylindrical housing to a predetermined amount, wherein,

in the adjusting, a test liquid is supplied into a temporarily assembled fuel injection valve, and repeating a confirmation operation of a fuel injection amount from the fuel injection port by opening and closing the valve member while the adjustment pipe being gradually press-fitted into the cylindrical housing.

16. (Currently amended) ~~The press-fitting~~ A press-fitting structure according to claim 1 of an adjustment pipe for adjusting a compression amount of a spring member for biasing a valve member, the press-fitting structure comprising:

a cylindrical housing having an inner peripheral surface defining a cylindrical space in which the adjustment pipe is press-fitted to adjust the compression amount of the spring member by an adjustment of a press-fitted amount of the adjustment pipe;
and

a lubricating material on at least one of an outer peripheral surface of the adjustment pipe and the inner peripheral surface of the cylindrical housing,

wherein the lubricating material is an oxalate film formed on all surfaces of the adjustment pipe including an inner peripheral surface and the outer peripheral surface thereof.

17. (Previously presented) The press-fitting structure according to claim 10, wherein the lubricating material is an oxalate film is formed on all surfaces of the adjustment pipe including an inner peripheral surface and the outer peripheral surface thereof.

18. (Previously presented) A press-fitting structure of an adjustment pipe for adjusting a compression amount of a spring member for biasing a fuel injection valve member, the adjustment pipe having an inner peripheral surface defining a fuel passage through which a fuel flows, the press-fitting structure comprising:

a cylindrical housing having an inner peripheral surface defining a cylindrical space in which the adjustment pipe is press-fitted to adjust the compression amount of the spring member by an adjustment of a press-fitted amount of the adjustment pipe; and

an oxalate film as a lubricating material on all surfaces of the adjustment pipe including the inner peripheral surface and an outer peripheral surface of the adjustment pipe.

19. (Previously presented) The press-fitting structure according to claim 18, wherein each of the adjustment pipe and the cylindrical housing is made of stainless steel.

20. (Previously presented) A press-fitting method for press-fitting an adjustment pipe into a cylindrical housing for a fuel injection valve, the adjustment pipe being for adjusting a compression amount of a spring member biasing a fuel injection valve member opening and closing a fuel injection port by an adjustment of a press-fitted amount of the adjustment pipe into the cylindrical housing, the adjustment pipe having an inner peripheral surface defining a fuel passage through which a fuel flows, the press-fitting method comprising:

forming an oxalate film on all surfaces of the adjustment pipe including the inner

peripheral surface and an outer peripheral surface of the adjustment pipe;
temporarily press-fitting the adjustment pipe into the cylindrical housing; and
adjusting the press-fitted amount of the adjustment pipe into cylindrical housing
to a predetermined amount, wherein,
in the adjusting, a test liquid is supplied into a temporarily assembled fuel
injection valve, and repeating a confirmation operation of a fuel injection amount from
the fuel injection port by opening and closing the valve member while the adjustment
pipe is gradually press-fitted into the cylindrical housing.